Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-03-03-02** **Date: 14-01-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)
Agency	:	Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011
Customer's Reference	:	BBMP/EE/BTP/WO/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg,Min)	297.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Agency/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-03-03-02** **Date: 10-02-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)
Agency	:	Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011
Customer's Reference	:	BBMP/EE/BTP/WO/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	12-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-03-03-02** **Date: 14-01-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)
Agency	:	Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011
Customer's Reference	:	BBMP/EE/BTP/WO/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-01-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-03-03-02** **Date: 14-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.23	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-03-03-02** **Date: 13-01-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)
Agency	:	Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011
Customer Reference	:	BBMP/EE/BTP/WO/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-03-03-02** **Date: 13-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-03-03-02** **Date: 13-01-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-01-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	153	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-03-03-02** **Date: 13-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.4	_
2	Specific Gravity	2.53	_
3	Material finer than 75 micron(%)	4.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-03-03-02** **Date: 13-01-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)
Agency	:	Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011
Customer's Reference	:	BBMP/EE/BTP/WO/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	12-01-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	536	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-03-03-02** **Date: 27-01-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)
Agency	:	Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011
Customer's Reference	:	BBMP/EE/BTP/WO/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-23
Sample Type /Size	:	Precast Cover Slab - 100mm thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	23/01/2023
Grade of Slab	:	M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.03	100.48	1.116	7857	168.6	21.5	20.0	24.9
2	Cover Slab-2	100.04	100.52	1.122	7859	172.4	21.9	20.4	25.5
3	Cover Slab-3	100.02	100.51	1.118	7856	181.2	23.1	21.5	26.8

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-03-03-02** **Date: 28-01-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)
Agency	:	Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011
Customer's Reference	:	BBMP/EE/BTP/WO/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Sample Type /Size	:	Precast Cover Slab - 230mm thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	24/01/2023
Grade of Slab	:	M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.01	100.28	1.116	7854	170.0	21.6	20.1	25.2
2	Cover Slab-2	100.06	100.68	1.122	7862	175.2	22.3	20.7	25.9
3	Cover Slab-3	100.04	100.41	1.118	7859	179.4	22.8	21.2	26.5

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 13/02/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-02-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	06/02/2023	13/02/2023	151.69 X 151.86 X 150.27	23036	8.949	423.5	18.4	18.3
2	Drain Bottom Raft Concrete	M20	06/02/2023	13/02/2023	150.74 X 150.10 X 150.06	22626	8.943	409.6	18.1	
3	Drain Bottom Raft Concrete	M20	06/02/2023	13/02/2023	149.13 X 149.12 X 151.60	22239	8.793	407.6	18.3	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 06/03/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-02-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	06/02/2023	06/03/2023	149.91 X 151.66 X 151.45	22735	8.146	538.6	23.7	23.2
2	Drain Bottom Raft Concrete	M20	06/02/2023	06/03/2023	151.51 X 149.84 X 150.12	22702	8.889	510.9	22.5	
3	Drain Bottom Raft Concrete	M20	06/02/2023	06/03/2023	149.60 X 150.39 X 150.21	22498	8.900	526.5	23.4	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 13/02/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-02-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	06/02/2023	13/02/2023	150.94 X 151.92 X 149.47	22930	8.614	423.6	18.5	18.5
2	Drain Bottom Raft Concrete	M20	06/02/2023	13/02/2023	151.63 X 151.67 X 149.93	22997	8.682	433.1	18.8	
3	Drain Bottom Raft Concrete	M20	06/02/2023	13/02/2023	150.58 X 151.10 X 150.89	22753	8.342	415.5	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 06/03/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-02-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	06/02/2023	06/03/2023	151.08 X 151.36 X 149.70	22867	8.290	526.0	23.0	23.2
2	Drain Bottom Raft Concrete	M20	06/02/2023	06/03/2023	150.07 X 150.09 X 149.31	22524	8.145	511.4	22.7	
3	Drain Bottom Raft Concrete	M20	06/02/2023	06/03/2023	149.44 X 150.50 X 150.99	22491	8.131	535.9	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 20/02/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-02-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	12/02/2023	19/02/2023	150.83 X 150.66 X 150.04	22724	8.422	427.0	18.8	18.5
2	Drain Side Wall Concrete	M20	12/02/2023	19/02/2023	149.07 X 149.88 X 151.50	22343	8.154	406.9	18.2	
3	Drain Side Wall Concrete	M20	12/02/2023	19/02/2023	149.01 X 150.95 X 149.53	22493	8.917	415.0	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 14/03/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-02-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	12/02/2023	12/03/2023	149.47 X 151.54 X 150.12	22650	8.366	539.0	23.8	23.5
2	Drain Side Wall Concrete	M20	12/02/2023	12/03/2023	149.27 X 149.58 X 150.37	22329	9.069	506.1	22.7	
3	Drain Side Wall Concrete	M20	12/02/2023	12/03/2023	151.19 X 151.44 X 150.96	22896	8.362	548.0	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 09/02/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-23

Customer ID : Culvert Raft Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Raft Wall Concrete	M20	02/02/2023	09/02/2023	151.68 X 150.52 X 150.15	22832	8.329	426.0	18.7	18.7
2	Culvert Raft Wall Concrete	M20	02/02/2023	09/02/2023	150.96 X 151.13 X 150.89	22815	8.629	424.9	18.6	
3	Culvert Raft Wall Concrete	M20	02/02/2023	09/02/2023	149.20 X 151.18 X 151.79	22555	8.577	423.4	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 02/03/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-23

Customer ID : Culvert Raft Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Raft Wall Concrete	M20	02/02/2023	02/03/2023	151.21 X 149.59 X 150.23	22618	8.533	522.3	23.1	23.1
2	Culvert Raft Wall Concrete	M20	02/02/2023	02/03/2023	150.12 X 150.55 X 150.10	22601	8.625	510.9	22.6	
3	Culvert Raft Wall Concrete	M20	02/02/2023	02/03/2023	149.16 X 150.44 X 149.24	22441	8.483	526.8	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 17/02/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	10/02/2023	17/02/2023	151.54 X 150.25 X 150.85	22769	8.387	420.2	18.5	18.6
2	Culvert Side Wall Concrete	M20	10/02/2023	17/02/2023	151.10 X 149.10 X 149.46	22530	8.721	416.7	18.5	
3	Culvert Side Wall Concrete	M20	10/02/2023	17/02/2023	150.51 X 151.55 X 151.28	22810	8.726	429.1	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-03-03-02** **Date: 10/03/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Works related to damaged caused due to Flood in Ward No.10 (Doddabommasandra)

Agency : Sri.B.Girish, No: 227, 32 A Cross, 7th Block, Jayanagar, Bangalore-560011

Customer's Reference : BBMP/EE/BTP/WO/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Side Wall Concrete	M20	10/02/2023	10/03/2023	149.43 X 151.10 X 150.03	22579	8.373	523.9	23.2	22.9
2	Culvert Side Wall Concrete	M20	10/02/2023	10/03/2023	151.21 X 151.16 X 149.67	22856	8.674	503.4	22.0	
3	Culvert Side Wall Concrete	M20	10/02/2023	10/03/2023	149.18 X 150.77 X 149.80	22492	8.295	529.1	23.5	

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Page 1/1
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